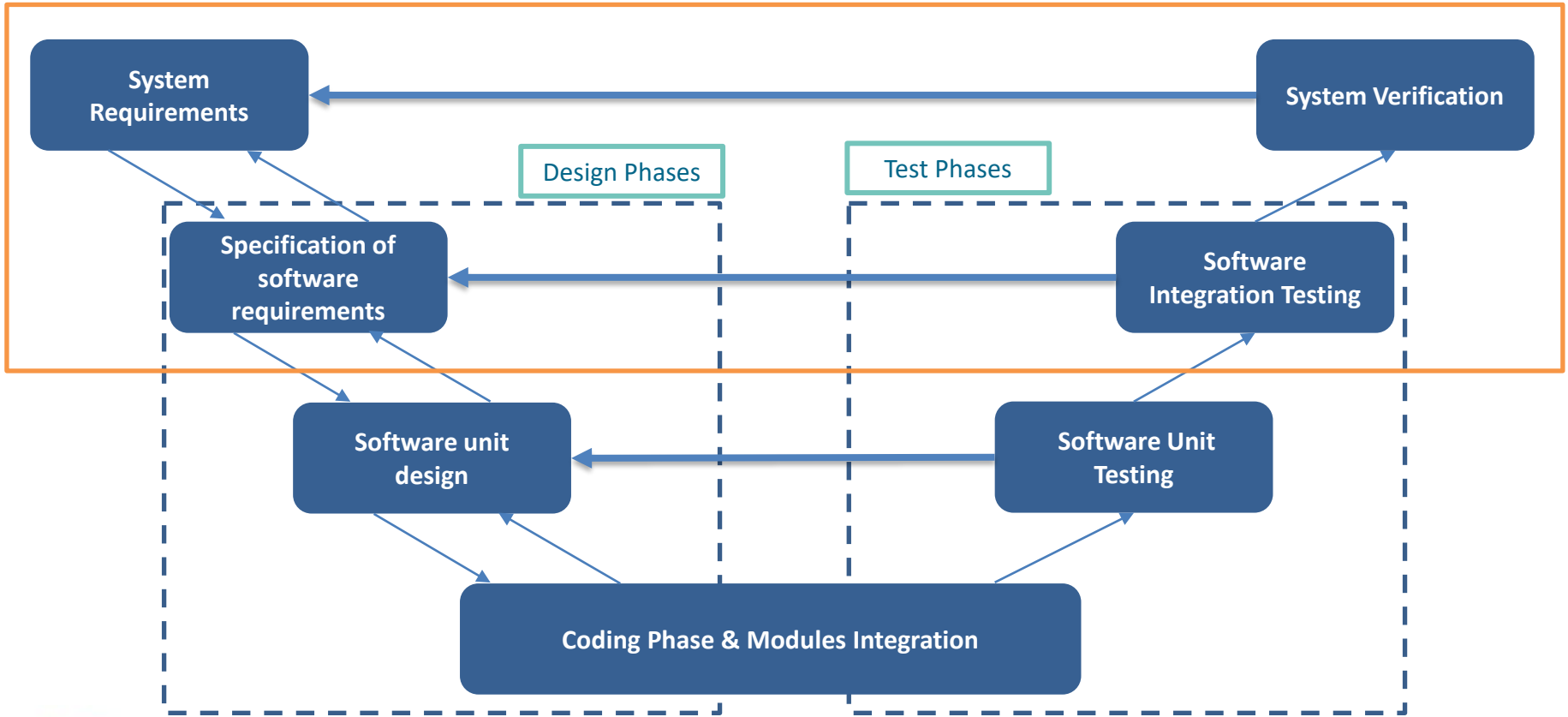


ATLAS

Automated Test Language Artifacts & Scenarios

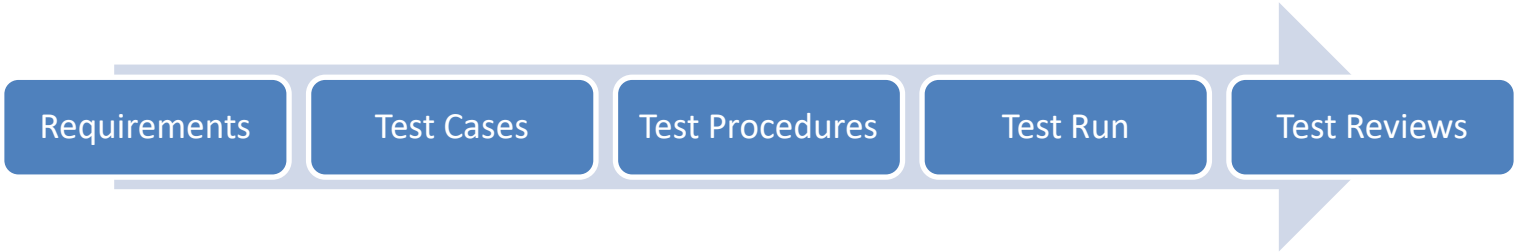
THE OBJECTIVES OF THE V-CYCLE



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TESTING PROCESS

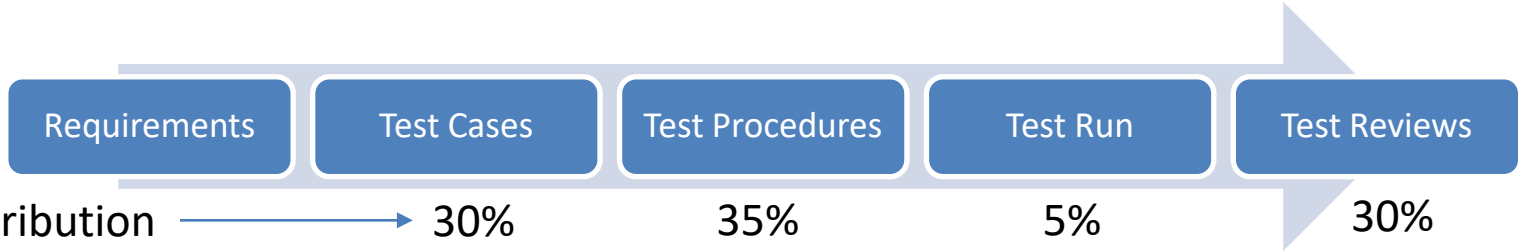




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THE CHALLENGES

Type of Software	Requirements	Tests Cases	Test Procedures	Test Run	Test Reviews
Legacy Softwares	Sunk in multiple documentation	Usually not existing	Using obsolete platforms and platform dependent	Using obsolete platforms and platform dependent	Extensively manual activities
New Softwares	Hand-wriiten Requirements are never standard	Extensively manual activities *	Extensively manual activities *	Platform dependent	Extensively manual activities *



* Time Distribution → 30% 35% 5% 30%

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ATLAS SOLUTION

Type of Software	Requirements	Tests Cases	Test Procedures	Test Run	Test Reviews
Legacy Softwares	Sunk in multiple documentation	Usually not existing	Using obsolete platforms and platform dependent	Using obsolete platforms and platform dependent	Extensively manual activities
New Softwares	Hand-wriiten Requirements are never standard	Extensively manual activities *	Extensively manual activities *	Platform dependent	Extensively manual activities *



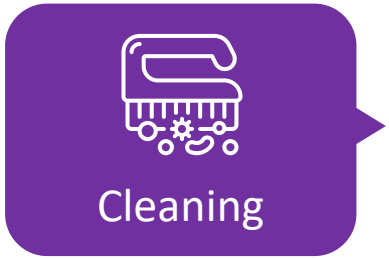
1- Extraction of Requirements
2- Cleaning of non-standard requirements
3- Creation of Requirement Based Test Cases

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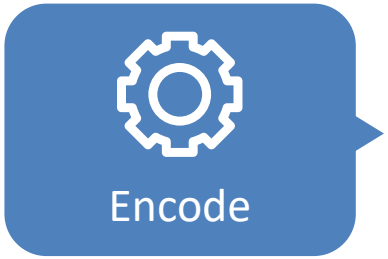
MAIN COMPONENTS OF ATLAS

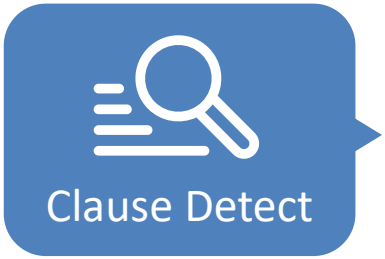


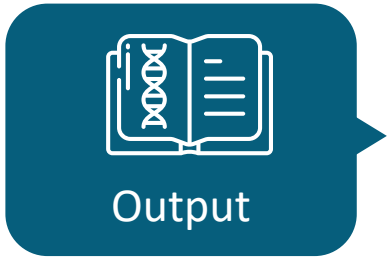








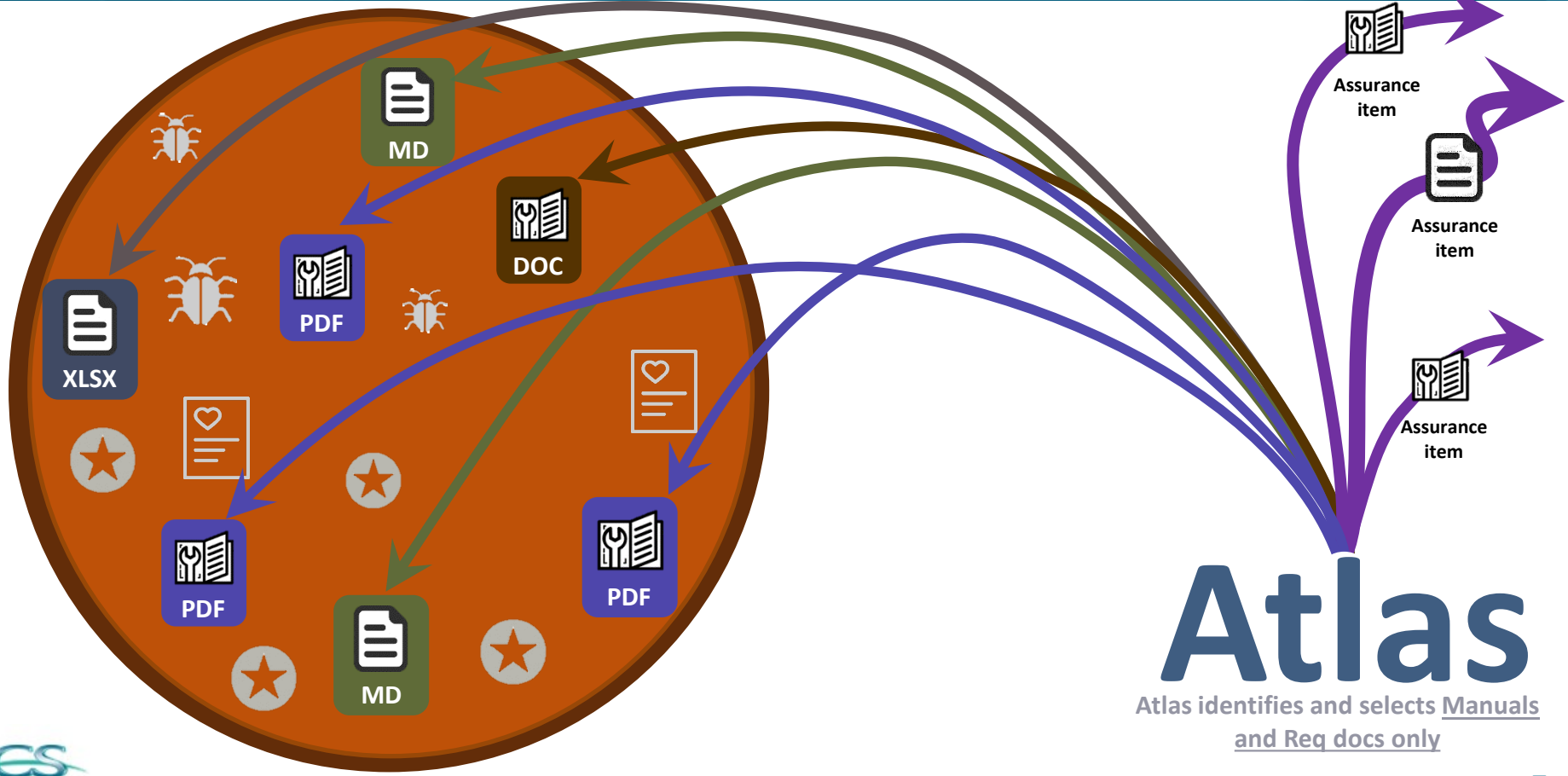






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1- INGEST AND EXTRACT OF REQUIREMENTS



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2- PARSING / CLEANING

Requirement: Pressing the safety button 3 times will trigger a GCS pairing request.

AI Pressing the ACTOR Safety button DVAL 3 MP times MD will

AI trigger a MP GCS pairing request



Encoded Text | AI DT ACTOR DVAL MP RB MD AI DT MP

Event Clause [0] | Pressing the safety button 3 times

Reactive Clause [0] | will trigger a GCS pairing request

Raw Text

↓

Lexical Analysis

↓

Filters to Identify Requirements

↓

Merge Tokens

↓

Clause Detection

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3- Requirement Based Test Case

EC[0] Pressing the safety button 3 times quickly

CAUSE

RC[0] will trigger a GCS pairing request

Safety button is pressed	> 3 times	< 3 times	3 times	GCS pairing request
1	0	0	1	1
1	1	0	0	1
1	0	1	0	0
1	0	0	1	0

Clause Detection

Truth Table Logic

Req Based Test Case

Test Case 1: Verify that the GCS pairing request **is triggered** when the safety button is pressed 3 times.
Test Case 2: Verify that the GCS pairing request **is triggered** when the safety button is pressed **more than** 3 times.
Test Case 3: Verify that the GCS pairing request is **NOT triggered** when the safety button is pressed **less than** 3 times.
Test Case 4: Verify that the GCS pairing request is **NOT triggered** when the safety button is pressed 3 times.

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